

Wireless Module

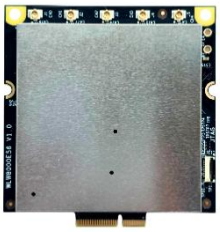
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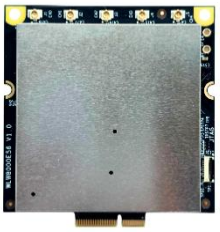
COMPEX

November 2026

802.11bn (WiFi 8)







HARDWARE SPECIFICATIONS			
TYPE OF CARD	5x5/4s MU-MIMO 802.11bn	5x5/4s MU-MIMO 802.11bn	5x5/4s MU-MIMO 802.11bn
MU-MIMO	5x5	5x5	5x5
MODEL	WLW8000U2	WLW8000U5	WLW8000U6
CHIPSET	QCN9575 + QCN5575	QCN9575 + QCN5575	QCN9575 + QCN5575
STANDARD			
THEORETICAL RATE			
FORM FACTOR			
SPECTRUM			
REFERENCE DESIGN			
HOST INTERFACE			
OPERATING VOLTAGE			
POWER (PER CHAIN)			
POWER CONSUMPTION			
CHANNEL SUPPORT			
ANTENNA CONNECTOR			
DIPLEXER			
MODULATION TECHNIQUES			
OPERATING ENVIRONMENT			
CERTIFICATION			
DIMENSIONS (W x H x D) in mm			

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802.11be (WiFi 7)






HARDWARE SPECIFICATIONS

TYPE OF CARD	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be
MU-MIMO	2x2 DBDC	2x2 DBDC	2x2 DBDC	2x2 DBDC
MODEL	WLE7002E25	WLE7002E26	WLE7002E55	WLE7002E56
CHIPSET	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274
STANDARD	802.11a/b/g/n/ac/ax/be	802.11b/g/n/ac/ax/be	802.11a/n/ax/be	802.11a/n/ac/ax/be
THEORETICAL RATE	2.4GHz: 688Mbps 5GHz: 4324Mbps	2.4GHz: 688Mbps 6GHz: 5765Mbps	5GHz: 4324Mbps 5GHz: 4324Mbps	5GHz: 4324Mbps, 6GHz: 5765Mbps
FORM FACTOR	Standard size	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz 5.150~5.825GHz	2.412~2.472GHz 5.945~7.125GHz	5.180~5.320GHz 5.500~5.825GHz	5.180~5.925GHz 5.945~7.125GHz
REFERENCE DESIGN	WK03.2	WK03.2	WK01.4	WK01.7
HOST INTERFACE	MiniPCIe	MiniPCIe	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V	3.3V	3.3V	3.3V
POWER (PER CHAIN)	20dBm @ 2.4GHz 18dBm @ 5GHz	20dBm @ 2.4GHz 17dBm @ 6GHz	18dBm @5GHz-L 17dBm @ 5GHz-H	18dBm @ 5GHz 18dBm @ 6GHz
POWER CONSUMPTION	8W (Max)	8.3W (Max)	8.5W (Max)	8.7W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz, 20/40/80/160/240MHz at 5GHz	20/40MHz at 2.4GHz, 20/40/80/160/320MHz at 6 GHz	20/40/80/160/240MHz at 5 GHz-L or 5GHz-H	20/40/80/160/240MHz at 5GHz, 20/40/80/160/320MHz at 6GHz
ANTENNA CONNECTOR	2 x U.FL Connectors	2 x U.FL Connectors	2 x U.FL Connectors	2 x U.FL Connectors
DIPLEXER	✓	✓	✓	✓
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	30 x 50.8 x 13	30 x 50.8 x 20.3	30 x 50.8 x 20.3	30 x 50.8 x 25.4

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802.11be (WiFi 7)







HARDWARE SPECIFICATIONS			
TYPE OF CARD	4x4 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be
MU-MIMO	4x4	4x4	4x4
MODEL	WLE7000E2	WLE7000E5	WLE7000E6
CHIPSET	Commercial: QCN6224 Industrial: QCN9274	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274
STANDARD	802.11b/g/n/ax/be	802.11a/n/ax/be	802.11ax/be
THEORETICAL RATE	1376Mbps	8647Mbps	11530Mbps
FORM FACTOR	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz	5.150~5.825GHz	5.925~7.125GHz
REFERENCE DESIGN	WKO2.2	WKO1.5	WKO1.6
HOST INTERFACE	MiniPCIe	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V	3.3V	3.3V
POWER (PER CHAIN)	20dBm @ 2.4GHz	18dBm @ 5GHz	17dBm @ 6GHz
POWER CONSUMPTION	8W (Max)	8.5W (Max)	9.3W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz	20/40/80/160/240MHz at 5GHz	20/40/80/160/320MHz at 6GHz
ANTENNA CONNECTOR	4 x U.FL Connectors	4 x U.FL Connectors	4 x U.FL Connectors
DIPLEXER	✕	✕	✕
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	30 x 50.8 x 13	30 x 50.8 x 20.3	30 x 50.8 x 25.4

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802.11be (WiFi 7)






HARDWARE SPECIFICATIONS

TYPE OF CARD	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be
MU-MIMO	2x2 DBDC	2x2 DBDC	2x2 DBDC	2x2 DBDC
MODEL	WLTE7002E25	WLTE7002E26	WLTE7002E55	WLTE7002E56
CHIPSET	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274
STANDARD	802.11a/b/g/n/ac/ax/be	802.11a/b/g/n/ax/be	802.11a/n/ax/be	802.11a/n/ac/ax/be
THEORETICAL RATE	2.4GHz: 688Mbps, 5GHz: 4324Mbps	2.4GHz: 688Mbps, 6GHz: 5765Mbps	5GHz: 4324Mbps 5GHz: 4324Mbps	5GHz: 4324Mbps 6GHz: 5765Mbps
FORM FACTOR	Standard size	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz 5.150~5.825GHz	2.412~2.472GHz 5.945~7.125GHz	5.180~5.320GHz 5.500~5.825GHz	5.150~5.925GHz 5.945~7.125GHz
REFERENCE DESIGN	WK03.2	WK03.2	WK01.4	WK01.7
HOST INTERFACE	M.2 E Key	M.2 E Key	M.2 E Key	M.2 E Key
OPERATING VOLTAGE	3.3V	3.3V	3.3V	3.3V
POWER (PER CHAIN)	20dBm @ 2.4GHz, 18dBm @ 5GHz	20dBm @ 2.4GHz, 18dBm @ 6GHz	18dBm @5GHz-L 17dBm @ 5GHz-H	18dBm @ 5GHz 18dBm @ 6GHz
POWER CONSUMPTION	8W (Max)	8.3W (Max)	8.5W (Max)	8.7W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz, 20/40/80/160/240MHz at 5GHz	20/40MHz at 2.4GHz, 20/40/80/160/320MHz at 6 GHz	20/40/80/160/240MHz at 5 GHz-L or 5GHz-H	20/40/80/160/240MHz at 2.4GHz, 20/40/80/160/320MHz at 5GHz
ANTENNA CONNECTOR	2 x U.FL Connectors	2 x U.FL Connectors	2 x U.FL Connectors	2 x U.FL Connectors
DIPLEXER	✓	✓	✓	✓
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 257-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	30 x 52 x 13.1	30 x 52 x 20.1	30 x 52 x 20.1	30 x 52 x 25.1

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802.11be (WiFi 7)







HARDWARE SPECIFICATIONS			
TYPE OF CARD	4x4 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be
MU-MIMO	4x4	4x4	4x4
MODEL	WLTE7000E2	WLTE7000E5	WLTE7000E6
CHIPSET	Commercial: QCN6224 Industrial: QCN9274	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274
STANDARD	802.11b/g/n/ax/be	802.11a/n/ax/be	802.11ax/be
THEORETICAL RATE	1376Mbps	8647Mbps	11530Mbps
FORM FACTOR	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz	5.150~5.825GHz	5.925~7.125GHz
REFERENCE DESIGN	WKO2.2	WKO1.5	WKO1.6
HOST INTERFACE	M.2 E Key	M.2 E Key	M.2 E Key
OPERATING VOLTAGE	3.3V	3.3V	3.3V
POWER (PER CHAIN)	20dBm @ 2.4GHz	18dBm @ 5GHz	17dBm @ 6GHz
POWER CONSUMPTION	8W (Max)	8.5W (Max)	9.3W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz	20/40/80/160/240MHz at 5GHz	20/40/80/160/320MHz at 6GHz
ANTENNA CONNECTOR	4 x U.FL Connectors	4 x U.FL Connectors	4 x U.FL Connectors
DIPLEXER	✕	✕	✕
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	30 x 52 x 13.1	30 x 52 x 20.1	30 x 52 x 25.1

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802.11be (WiFi 7)






HARDWARE SPECIFICATIONS				
TYPE OF CARD	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be	2x2 MU-MIMO 802.11be
MU-MIMO	2x2 DBDC	2x2 DBDC	2x2 DBDC	2x2 DBDC
MODEL	WLTB7002E25	WLTB7002E26	WLTB7002E55	WLTB7002E56
CHIPSET	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274
STANDARD	802.11a/b/g/n/ac/ax/be	802.11b/g/n/ax/be	802.11a/n/ax/be	802.11a/n/ac/ax/be
THEORETICAL RATE	2.4GHz: 688Mbps 5GHz: 4324Mbps	2.4GHz: 688Mbps, 6GHz: 5765Mbps	5GHz: 4324Mbps 5GHz: 4324Mbps	5GHz: 4324Mbps 6GHz: 5765Mbps
FORM FACTOR	Standard size	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz 5.150~5.825GHz	2.412~2.472GHz 5.945~7.125GHz	5.180~5.320GHz 5.500~5.825GHz	5.150~5.925GHz 5.945~7.125GHz
REFERENCE DESIGN	WK03.2	WK03.2	WK01.4	WK01.7
HOST INTERFACE	M.2 B+M Key	M.2 B+M Key	M.2 B+M Key	M.2 B+M Key
OPERATING VOLTAGE	3.3V	3.3V	3.3V	3.3V
POWER (PER CHAIN)	20dBm @ 2.4GHz 18dBm @ 5GHz	20dBm @ 2.4GHz, 18dBm @ 6GHz	18dBm @5GHz-L 17dBm @ 5GHz-H	18dBm @ 5GHz 18dBm @ 6GHz
POWER CONSUMPTION	8W (Max)	8.3W (Max)	8.5W (Max)	8.7W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz, 20/40/80/160/240MHz at 5GHz	20/40MHz at 2.4GHz, 20/40/80/160/320MHz at 6 GHz	20/40/80/160/240MHz at 5 GHz-L or 5GHz-H	20/40/80/160/240MHz at 5 GHz, 20/40/80/160/320MHz at 6GHz
ANTENNA CONNECTOR	2 x U.FL Connectors	2 x U.FL Connectors	2 x U.FL Connectors	2 x U.FL Connectors
DIPLEXER	✓	✓	✓	✓
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance	FCC, CE, IC Certified; REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	30 x 52 x 13.1	30 x 52 x 20.1	30 x 52 x 20.1	30 x 52 x25.1

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802.11be (WiFi 7)





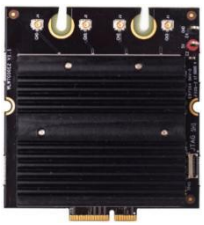
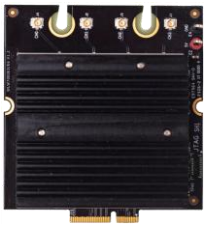
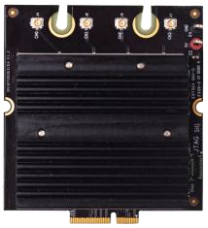
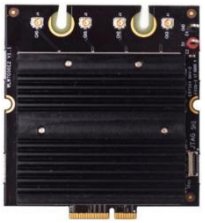


HARDWARE SPECIFICATIONS

TYPE OF CARD	Wide card High Power 2x2 MU-MIMO 802.11be	Wide card High Power 2x2 MU-MIMO 802.11be	Wide card High Power 2x2 MU-MIMO 802.11be
MU-MIMO	2x2	2x2	2x2
MODEL	WLWE7002E2-27	WLWE7002E5-27	WLWE7002E6-27
CHIPSET	QCN9274	QCN9274	QCN9274
STANDARD	802.11b/g/n/ax/be	802.11a/n/ac/ax/be	802.11ax/be
THEORETICAL RATE	688Mbps	4323Mbps	5764Mbps
FORM FACTOR	Wide size	Wide size	Wide size
SPECTRUM	2.412~2.472GHz	4.920~5.825GHz	5.925~7.125GHz
REFERENCE DESIGN	WK02.2	WK01.5	WK01.6
HOST INTERFACE	MiniPCIe	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V, 5V	3.3V, 5V	3.3V, 5V
POWER (PER CHAIN)	27dBm @ 2.4GHz	27dBm @ 5GHz	26dBm @ 6GHz
POWER CONSUMPTION	7W (Max)	8.5W (Max)	8.8W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz	20/40/80/160/240MHz at 5GHz	20/40/80/160/320MHz at 6GHz
ANTENNA CONNECTOR	2 x MMCX Connectors	2 x MMCX Connectors	2 x MMCX Connectors
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	REACH & RoHS Compliance	REACH & RoHS Compliance	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	50 x 62.7 x 14.2	57 x 62.7 x 14.2	57 x 62.7 x 14.2

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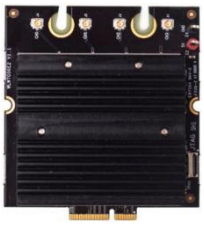
802.11be (WiFi 7)

HARDWARE SPECIFICATIONS				
TYPE OF CARD	2x2 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be	4x4 MU-MIMO 802.11be
MU-MIMO	2x2 DBDC	4x4	4x4	4x4
MODEL	WLW7000E25	WLW7000E2	WLW7000E5	WLW7000E6
CHIPSET	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6224/6274 Industrial: QCN9274	Commercial: QCN6274 Industrial: QCN9274
STANDARD	802.11a/b/g/n/ax/be	802.11b/g/n/ax/be	802.11a/n/ax/be	802.11ax/be
THEORETICAL RATE	2.4GHz: 688Mbps 5GHz: 2882Mbps	2.4GHz: 1376Mbps	5765Mbps	11530Mbps
FORM FACTOR	Wide size	Wide size	Wide size	Wide size
SPECTRUM	2.412-2.472GHz 5.150-5.825GHz	2.412-2.472GHz	5.15-5.825GHz	EU: 5.945-6.425GHz US: 6.115-7.125GHz
REFERENCE DESIGN	WK03.2	WK02.2	WK01.5	WK01.6
HOST INTERFACE	M.2 E Key	M.2 E Key	M.2 E Key	M.2 E Key
OPERATING VOLTAGE	5V	5V	5V	5V
POWER (PER CHAIN)	23dBm @ 2.4GHz 21dBm @ 5GHz	22dBm @ 2.4GHz	22dBm @ 5GHz	22dBm @ 6GHz
POWER CONSUMPTION	13.3W (Max)	12.3W (Max)	13W (Max)	14W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz 20/40/80/160/240MHz at 5GHz	20/40MHz at 2.4GHz	20/40/80/160MHz at 5GHz	20/40/80/160/320MHz at 6GHz
ANTENNA CONNECTOR	4x U.FL Connectors	4x U.FL Connectors	4x U.FL Connectors	4x U.FL Connectors
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	Commercial: -20°C to 70°C Industrial: -40°C to 85°C	Commercial: -20°C to 70°C Industrial: -40°C to 85°C	Commercial: -20°C to 70°C Industrial: -40°C to 85°C	Commercial: -20°C to 70°C Industrial: -40°C to 85°C
CERTIFICATION	REACH & RoHS Compliance	REACH & RoHS Compliance	REACH & RoHS Compliance	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	62.7 X 57 X 15	62.7 X 57 X 15	62.7 X 57 X 15	62.7 X 57 X 15

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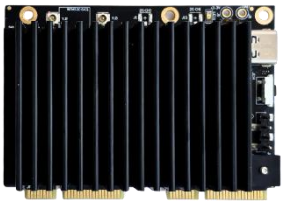
802.11be (WiFi 7)



HARDWARE SPECIFICATIONS	
TYPE OF CARD	2x2 MU-MIMO 802.11be
MU-MIMO	2x2 DBDC
MODEL	WLW7000E56
CHIPSET	Commercial: QCN6274, Industrial: QCN9274
STANDARD	802.11a/n/ax/be
THEORETICAL RATE	5GHz: 2882Mbps, 6GHz: 5765Mbps
FORM FACTOR	Wide Size
SPECTRUM	5.150~5.825GHz, 5.945~7.125GHz
REFERENCE DESIGN	WK01.7
HOST INTERFACE	M.2E Key
OPERATING VOLTAGE	5V
POWER (PER CHAIN)	22dBM @ 5GHz, 22dBM @ 6GHz
POWER CONSUMPTION	13.6W (Max)
CHANNEL SUPPORT	20/40/80/160/240MHz @ 5GHz, 20/40/80/160/320MHz @ 6GHz
ANTENNA CONNECTOR	4x U.FL Connectors
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK,16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	Commercial: -20°C to 70°C, Industrial: -40°C to 85°C
CERTIFICATION	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	62.7 x 57 x 12.4

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802.11be (WiFi 7)



HARDWARE SPECIFICATIONS	
TYPE OF CARD	2x2 MU-MIMO 802.11be
MU-MIMO	2x2
MODEL	WPM530
CHIPSET	IPQ5322 SoC + QCN6274
STANDARD	802.11a/b/n/ac/ax/be
THEORETICAL RATE	2.4GHz: 688Mbps, 5GHz: 4324Mbps, 6GHz: 5765Mbps
OPERATING FREQUENCY	2.4IGHz, 5GHz, 6GHz
SPECTRUM	2.412~2.472GHz, 5.180~5.825GHz, 5.945~7.125GHz
REFERENCE DESIGN	AP.MI01.2 + WK01.7
HOST INTERFACE	2x MiniPCIE interface (power supply only; powering through either interface is sufficient); 1x 10Gbps serial interface, using Ethernet protocol
OPERATING VOLTAGE	3.3V
POWER (PER CHAIN)	22dBM @ 2.4GHz, 17dBM @ 5GHz, 17dBM @ 6GHz
POWER CONSUMPTION	20W (Max)
CHANNEL SUPPORT	20/40MHz @ 2.4GHz, 20/40/80/160/240MHz @ 5GHz, 20/40/80/160/320MHz @ 6GHz
ANTENNA CONNECTOR	2x U.FL Connectors
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK,16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	TBD
CERTIFICATION	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	70 x 50.8 x 12

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802.11ax (WiFi 6)







HARDWARE SPECIFICATIONS

TYPE OF CARD	2x2 MU-MIMO 802.11ax	4x4 MU-MIMO 802.11ax	4x4 MU-MIMO 802.11ax
MU-MIMO	2x2	4x4	4x4
MODEL	WLE3002HX	WLE3000HX	WLE3000H56
CHIPSET	Commercial: QCN6024/9024 Industrial: QCN9074	Commercial: QCN6024/9024 Industrial: QCN9074	Commercial: QCN9024 Industrial: QCN9074
STANDARD	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax	802.11a/n/ac/ax
THEORETICAL RATE	2.4GHz: 573Mbps 5GHz: 2402Mbps	2.4GHz: 1376.4Mbps 5GHz: 4804Mbps	5GHz: 4804Mbps
FORM FACTOR	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz 5.150~5.825GHz	2.412~2.472GHz 5.150~5.825GHz	5.180~7.125GHz
REFERENCE DESIGN	PN03.1	PN02.1	PN02.1
HOST INTERFACE	MiniPCIe	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V	3.3V	3.3V
POWER (PER CHAIN)	20dBm @ 2.4GHz 20dBm @ 5GH	20dBm @ 2.4GHz, 20dBm @ 5GHz	20dBm @5GHz
POWER CONSUMPTION	6.6W (Max)	9W (Max)	8W (Max)
CHANNEL SUPPORT	20/40MHz at 2.4GHz, 20/40/80/160MHz at 5GHz	20/40MHz at 2.4GHz, 20/40/80/160MHz at 5 GHz	20/40/80/160MHz at 5GHz
ANTENNA CONNECTOR	2 x U.FL Connectors	4 x U.FL Connectors	4 x U.FL Connectors
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	Commercial: -20°C to 70°C Industrial: -40°C to 85°C	Commercial: -20°C to 70°C Industrial: -40°C to 85°C	Commercial: -20°C to 70°C Industrial: -40°C to 85°C
CERTIFICATION	FCC, CE , IC Certified; REACH & RoHS Compliance	FCC, CE , IC Certified; REACH & RoHS Compliance	CE Certified; REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	Commercial: 30 x 50.8 x 8.5 Industrial: 30 x 50.8 x 12	Commercial: 30 x 50.8 x 12 Industrial: 30 x 50.8 x 24	30 x 50.8 x 13.5

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802.11ax (WiFi 6)







HARDWARE SPECIFICATIONS			
TYPE OF CARD	4x4 MU-MIMO 802.11ax	4x4 MU-MIMO 802.11ax	4x4 MU-MIMO 802.11ax
MU-MIMO	4x4	4x4	4x4
MODEL	WLW3000H6 (EU/US)	PN02.1	PN01.1
CHIPSET	QCN9024/9074	QCN9024/9074	QCN9024/9074
STANDARD	802.11a/n/ac/ax	802.11a/n/ac/ax	802.11b/g/n/ax
THEORETICAL RATE	4804Mbps	4804Mbps	1376.4Mbps
FORM FACTOR	Wide size	Wide size	Wide size
SPECTRUM	EU: 5.945-6.425GHz US: 6.115-7.125GHz	5.150~5.950GHz	2.412~2.472GHz
REFERENCE DESIGN	PN02.6	PN02.1	PN01.1
HOST INTERFACE	M.2 E Key	M.2 E Key	M.2 E Key
OPERATING VOLTAGE	5V	5V	5V
POWER (PER CHAIN)	20dBm @ 6GHz	24dBm @ 5GHz	24dBm @ 2.4GHz
POWER CONSUMPTION	16W	16W	15W
CHANNEL SUPPORT	20/40/80/160MHz at 6GHz	20/40/80/160MHz at 5GHz	20/40MHz at 2.4GHz
ANTENNA CONNECTOR	4x U.FL Connectors	4x U.FL Connectors	4x U.FL Connectors
MODULATION TECHNIQUES	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM	OFDMA: BPSK, QPSK, DBPSK, DQPSK,16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	REACH & RoHS Compliance	REACH & RoHS Compliance	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	57 x 60 x 6.3	57 x 60 x 6.3	57 x 60 x 6.3

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WLAN + BLE (WiFi 6)





HARDWARE SPECIFICATIONS		
TYPE OF CARD	2x2 MU-MIMO 802.11ax	2x2 MU-MIMO 802.11ax
MU-MIMO	2x2	2x2
MODEL	WLT639	WLT206H
CHIPSET	QCA6391	QCA2062
STANDARD	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax
THEORETICAL RATE	573.6Mbps @ 2.4GHz, 1201Mbps @ 5GHz	573.6Mbps @ 2.4GHz, 1201Mbps @ 5GHz
FORM FACTOR	Standard M.2 2230 size	Standard M.2 2230 size
SPECTRUM	2.412~2.483GHz, 5.150~5.850GHz	2.412~2.483GHz, 5.150~5.850GHz
REFERENCE DESIGN	HST04	VER02.1
HOST INTERFACE	M.2 E Key	M.2 E Key
OPERATING VOLTAGE	3.3V	3.3V
POWER (PER CHAIN)	16dBm @ 2.4GHz, 15dBm @ 5GHz	17dBm @ 2.4GHz, 15dBm @ 5GHz
POWER CONSUMPTION	TX: 798.12mA; RX: 196.8mA	TBD
CHANNEL SUPPORT	20/40MHz at 2.4GHz, Supports 20/40/80 at 5GHz	20/40MHz at 2.4GHz, Supports 20/40/80 at 5GHz
ANTENNA CONNECTOR	2x MHF4 Connectors	2x MHF4 Connectors
MODULATION TECHNIQUES	OFDMA (DPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)	OFDMA (DPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)
OPERATING ENVIRONMENT	-20°C to 70°C	-20°C to 70°C
CERTIFICATION	REACH & RoHS Compliance	REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	22 x 30 x 2.8	22 x 30 x 2.8

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WLAN + BLE (WiFi 5)



HARDWARE SPECIFICATIONS	
TYPE OF CARD	System-on-chip (SoC) 1x1 WLAN and Bluetooth
MIMO	1x1
MODEL	WSD377
CHIPSET	QCA9377-3
STANDARD	802.11a/b/g/n/ac
THEORETICAL RATE	433Mbps
FORM FACTOR	SOM
SPECTRUM	2.412~2.472GHz, 5.180~5.825GHz
REFERENCE DESIGN	WB396
HOST INTERFACE	SDIO
OPERATING VOLTAGE	3.3V DC
POWER (PER CHAIN)	16dBm @ 2.4GHz, 11dBm @ 5GHz
POWER CONSUMPTION	3.83W (Max)
CHANNEL SUPPORT	20/40MHz @ 2.4GHz, 20/40/80MHz @ 5GHz
ANTENNA CONNECTOR	SDIO
MODULATION TECHNIQUES	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
OPERATING ENVIRONMENT	-20°C to 70°C
CERTIFICATION	FCC, IC, CE RED Certified; REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	12 x 12 x 2.5

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802.11ac Wave 2 (WiFi 5)






HARDWARE SPECIFICATIONS				
TYPE OF CARD	Standard size 4x4 MU-MIMO 802.11ac Wave 2	Standard size 4x4 MU-MIMO 802.11ac Wave 2	Standard size 4x4 MU-MIMO 802.11ac Wave 2	Standard size 4x4 MU-MIMO 802.11ac Wave 2
MIMO	4x4	4x4	4x4	4x4
MODEL	WLE1216VX-I	WLE1216VX	WLE1216V5-20	WLE1216V5-20-I
CHIPSET	QCA9994	QCA9984	QCA9984	QCA9994
STANDARD	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/n/ac	802.11a/n/ac
THEORETICAL RATE	800Mbps @ 2.4GHz 1733Mbps @ 5GHz	800Mbps @ 2.4GHz 1733Mbps @ 5GHz	1733Mbps	1733Mbps
FORM FACTOR	Standard size	Standard size	Standard size	Standard size
SPECTRUM	2.412~2.472GHz, 5.180~5.825GHz	2.412~2.472GHz, 5.180~5.825GHz	5.180~5.825GHz	5.180~5.825GHz
REFERENCE DESIGN	CAS03	CAS03	CUS239	CUS239
HOST INTERFACE	MiniPCIe	MiniPCIe	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V DC	3.3V DC	3.3V DC	3.3V DC
POWER (PER CHAIN)	20dBm @ 2.4GHz 19dBm @ 5GHz	20dBm @ 2.4GHz 19dBm @ 5GHz	20dBm @ 5GHz	20dBm @ 5GHz
POWER CONSUMPTION	9W (Max)	9W (Max)	8.5W (Max)	8.5W (Max)
CHANNEL SUPPORT	20/40/80/80+80M	20/40/80/80+80M	20/40/80/80+80M	20/40/80/80+80M
ANTENNA CONNECTOR	4x U.FL	4x U.FL	4x U.FL	4x U.FL
MODULATION TECHNIQUES	CCK, OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	CCK, OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
OPERATING ENVIRONMENT	-40°C to 85°C	-20°C to 70°C	-20°C to 70°C	-40°C to 85°C
CERTIFICATION	FCC, REACH & RoHS Compliance	FCC, REACH & RoHS Compliance	FCC, CE, IC, REACH & RoHS Compliance	FCC, CE, IC, REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	29.9 x 50.8 x 12.9	29.9 x 50.8 x 12.9	29.9 x 50.8 x 12.9	29.9 x 50.8 x 12.9

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802.11ac Wave 2 (WiFi 5)





HARDWARE SPECIFICATIONS		
TYPE OF CARD	Standard size 4x4 MU-MIMO 802.11n	Standard size 4x4 MU-MIMO 802.11ac Wave 2
MIMO	4x4	4x4
MODEL	WLE1216V2-20	WLE1216V2-20-I
CHIPSET	QCA9984	QCA9994
STANDARD	802.11b/g/n/ac	802.11b/g/n/ac
THEORETICAL RATE	800Mbps	800Mbps
FORM FACTOR	Standard size	Standard size
SPECTRUM	2.412~2.472GHz	2.412~2.472GHz
REFERENCE DESIGN	CUS260	CUS260
HOST INTERFACE	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V DC	3.3V DC
POWER (PER CHAIN)	20dBm @ 2.4GHz	20dBm @ 2.4GHz
POWER CONSUMPTION	6.68W (Max)	6.68W (Max)
CHANNEL SUPPORT	20/40MHz	20/40MHz
ANTENNA CONNECTOR	4x U.FL	4x U.FL
MODULATION TECHNIQUES	CCK, OFDM: BPSK, QPSK, 16-QAM, 64-QAM	CCK, OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-40°C to 85°C
CERTIFICATION	FCC, CE, IC REACH & RoHS Compliance	FCC, CE, IC, REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	29.9 x 50.8 x 12.9	29.9 x 50.8 x 12.9

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802.11ac Wave 1 (WiFi 5)








HARDWARE SPECIFICATIONS

TYPE OF CARD	Standard size 3x3 MIMO 802.11ac	Standard size Industrial Grade 3x3 MIMO 802.11ac	Standard size 2x2 MIMO 802.11ac	Standard size Industrial Grade 2x2 MIMO 802.11ac	Wide card High Power 2x2 MIMO 802.11ac	Wide card High Power 2x2 MIMO 802.11ac
MIMO	3x3	3x3	2x2	2x2	3x3	2x2
MODEL	WLE900VX	WLE900VX-I	WLE600VX	WLE600VX-I	WLE900V5-27ESD	WLE600V5-27ESD
CHIPSET	QCA9880	QCA9890	QCA9882	QCA9892	QCA9880	QCA9882
STANDARD	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/n/ac	802.11a/n/ac
THEORETICAL RATE	1300Mbps	1300Mbps	867Mbps	867Mbps	1300Mbps	867Mbps
FORM FACTOR	Standard size	Standard size	Standard size	Standard size	Wide size	Wide size
SPECTRUM	2.412~2.472GHz 5.180~5.825GHz	2.412~2.472GHz 4.920~5.825GHz	2.412~2.472GHz 5.180~5.825GHz	2.412~2.472GHz 4.920~5.825GHz	5.180~5.825GHz	5.180~5.825GHz
REFERENCE DESIGN	XB140	XB140	XB140	XB140	CUS223	CUS223
HOST INTERFACE	MiniPCIe	MiniPCIe	MiniPCIe	MiniPCIe	MiniPCIe	MiniPCIe
OPERATING VOLTAGE	3.3V DC	3.3V DC	3.3V DC	3.3V DC	3.3V and 5V DC	3.3V and 5V DC
POWER (PER CHAIN)	21dBm @ 2.4GHz 20dBm @ 5GHz	21dBm @ 2.4GHz 20dBm @ 5GHz	21dBm @ 2.4GHz 20dBm @ 5GHz	21dBm @ 2.4GHz 20dBm @ 5GHz	27dBm @ 5GHz	27dBm @ 5GHz
POWER CONSUMPTION	5W (Max)	5W (Max)	3.5W (Max)	3.5W (Max)	10W (Max)	7.5W (Max)
CHANNEL SUPPORT	20/40/80M	20/40/80M	20/40/80M	20/40/80M	20/40/80M	20/40/80M
ANTENNA CONNECTOR	3x U.FL	3x U.FL	2x U.FL	2x U.FL	3x MMCX	2x MMCX
MODULATION TECHIQUES	OFDM: BPSK, QPSK, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM	OFDM: BPSK, QPSK, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM	OFDM: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM	OFDM: BPSK, QPSK, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM	BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM	BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM
OPERATING ENVIRONMENT	-20°C to 70°C	-40°C to 70°C*	-20°C to 70°C	-40°C to 70°C*	-20°C to 70°C with normal heatsink, -40°C to 80°C with large heatsink	-20°C to 70°C with normal heatsink, -40°C to 85°C with large heatsink
CERTIFICATION	FCC, CE, IC, REACH & RoHS	FCC, CE, IC, REACH & RoHS Compliance	FCC, CE, IC, REACH & RoHS Compliance	FCC, CE, IC, REACH & RoHS Compliance	CE, REACH & RoHS	FCC, CE, IC, REACH & RoHS Compliance
DIMENSIONS (W x H x D) in mm	29.85 x 50.8 x 3.2	29.85 x 50.8 x 3.2	29.85 x 50.8 x 3.2	29.85 x 50.8 x 3.2	50 x 51 x 12.5 with normal heatsink, 95 x 51 x 13 with large heatsink	50 x 51 x 12.5 with normal heatsink, 95 x 51 x 13 with large heatsink

*The wireless module can operate up to 90°C. For long term reliability, it is recommended that a 20°C safety margin be maintained.

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